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Sustainable Entrepreneurship is nowadays considered as a discipline at the cross-roads of many others. This book describes recent cases, techniques and tools proposed for leaders, entrepreneurs, and practitioners who are involved and responsible for making strategic decisions in their companies and aiming at sustainable development. This book highlights the use of new business models/methods that can be employed by organizations and researchers to save millions of dollars, to enhance the economic growth, as well as to resolve environmental and social issues, via sustainable networks, renewal energy distribution, and social/green entrepreneurship. It will provide a comprehensive discussion of practical techniques, like Machine Learning, Robotics, Photovoltaic solar energy, in the field of renewable energy, and other digital tools, such as digital marketing, crowdsourcing platforms, and digital currency. Meanwhile, it will enlighten the way for entrepreneurs and decision makers by helping them to learn how to grow their business. The focus will be on how to benefit from these techniques to develop sustainable and renewable energy-based projects, as well as digitalized new ventures. The book walks the reader through the latest emerging trends in digitalization that can support practitioners, managers, entrepreneurs, and researchers to help them appreciate the application of sustainable solutions in various functional domains. Photovoltaic Solar Energy Conversion - Technologies, Applications and Environmental Impacts features

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comprehensive and up-to-date knowledge on the photovoltaic solar energy conversion technology and describes its different aspects in the context of most recent scientific and technological advances. It also provides an insight into future developments in this field by covering four distinct topics include "PV Cells and Modules", "Applications of PV Systems", "Life Cycle and Environmental Impacts" and "PV Market and Policies". An up-to-date reference book on the advances of photovoltaic solar energy conversion technology Describes different aspects of PV and PVT technologies in a comprehensive way Provides information on design, development, and monitoring of PV systems Covers applications of PV and PVT systems in the urban, industry, and agriculture sectors Features new concepts, environmental impacts, market and policies of the PV technology

This book presents a new topology of the non-isolated online uninterruptible power supply (UPS) system consisting of 3 components: bridgeless boost rectifier, battery charger/discharger, and an inverter. The online UPS system is considered to be the most preferable UPS due to its high level of power quality and proven reliability against all types of line disturbances and power outages. The new battery charger/discharger reduces the battery bank voltage, which improves performance and reliability, while a new control method for the inverter regulates the output voltage for both linear and nonlinear loads. The proposed USP system shows an efficiency of 94% during battery mode and 92% during the normal mode of operation.

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A substantial revision of <math>\langle \text{Curriculum Books: The First Eighty Years}>\text{, this new volume is a comprehensive presentation of curriculum books that have contributed to theoretical and practical discourse about curriculum throughout the twentieth century. Following an introduction that explains the book's purpose and how it was constructed, the authors present each decade in a chapter that provides contextual reminders about the social, political, and cultural events of the time period, discussion of salient events in curriculum discourse, and a comprehensive bibliography (by year) of curriculum books. More than 3,000 curriculum books are weaved into this presentation. The original and updated conclusions are offered to provide interpretative perspective on curricular trends, state of the field, and possibilities for the future of curriculum studies.}

Battery Operated Devices and Systems provides a comprehensive review of the essentials of batteries and battery applications as well as state-of-the-art technological developments. The book covers the most recent trends, especially for the ubiquitous lithium ion batteries. It lays particular emphasis on the power consumption of battery operated devices and systems and the implications for battery life and runtime. Battery management is also dealt with in detail, particularly as far as the charging methods are concerned, along with the criteria of battery choice. This book describes a variety of portable and industrial applications and the basic characteristics of all primary and secondary batteries used in these applications. Portable applications include mobile phones, notebook

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computers, cameras, camcorders, personal digital assistants, medical instruments, power tools, and portable GPS. Industrial applications range from aerospace and telecommunications to emergency systems, load levelling, energy storage, toll collection, different meters, data loggers, oil drilling, oceanography, and meteorology. The book also discusses wireless connectivity, i.e. Wi-Fi, Bluetooth and Zigbee, and concludes with some market considerations. Links to further reading are provided through the 275 references. This book will be a valuable information source for researchers interested in devices and systems drawing power from batteries. It will also appeal to graduates working in research institutions; universities and industries dealing with power sources and energy conversion; civil, electrical and transport engineers; and chemists. A comprehensive review of battery applications Includes 209 figures and 62 tables Describes state-of-the-art technological developments In this book, a number of innovative fault diagnosis algorithms in recently years are introduced. These methods can detect failures of various types of system effectively, and with a relatively high significance. A comprehensive training resource for producing electric power from the sun.

"This book presents an overall description of electrical energy conversion technologies and required power electronic converters"--Provided by publisher.

A guide to electrical isolation and switching. It is part of a series of manuals designed to amplify the particular requirements of a part of the 16th Edition Wiring

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Regulations. Each of the guides is extensively cross-referenced to the Regulations thus providing easy access. Some Guidance Notes contain information not included in the 16th Edition but which was included in earlier editions of the IEE Wiring Regulations. All the guides have been updated to align with BS 7671:2001. Today's wind energy industry is at a crossroads. Global economic instability has threatened or eliminated many financial incentives that have been important to the development of specific markets. Now more than ever, this essential element of the world energy mosaic will require innovative research and strategic collaborations to bolster the industry as it moves forward. This text details topics fundamental to the efficient operation of modern commercial farms and highlights advanced research that will enable next-generation wind energy technologies. The book is organized into three sections, Inflow and Wake Influences on Turbine Performance, Turbine Structural Response, and Power Conversion, Control and Integration. In addition to fundamental concepts, the reader will be exposed to comprehensive treatments of topics like wake dynamics, analysis of complex turbine blades, and power electronics in small-scale wind turbine systems.

Handbook of Electrical Installation Practice covers all key aspects of industrial, commercial and domestic installations and draws on the expertise of a wide range of industrial experts. Chapters are devoted to topics such as wiring cables, mains and submains cables and distribution in buildings, as well as power supplies, transformers, switchgear, and electricity on construction sites. Standards and codes of practice, as well as safety, are also included.

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Since the Third Edition was published, there have been many developments in technology and standards. The revolution in electronic microtechnology has made it possible to introduce more complex technologies in protective equipment and control systems, and these have been addressed in the new edition. Developments in lighting design continue, and extra-low voltage luminaries for display and feature illumination are now dealt with, as is the important subject of security lighting. All chapters have been amended to take account of revisions to British and other standards, following the trend to harmonised European and international standards, and they also take account of the latest edition of the Wiring Regulations. This new edition will provide an invaluable reference for consulting engineers, electrical contractors and factory plant engineers.

A major update of solar cell technology and the solar marketplace Since the first publication of this important volume over a decade ago, dramatic changes have taken place with the solar market growing almost 100-fold and the U.S. moving from first to fourth place in the world market as analyzed in this Second Edition. Three bold new opportunities are identified for any countries wanting to improve market position. The first is combining pin solar cells with 3X concentration to achieve economic competitiveness near term. The second is charging battery-powered cars with solar cell-generated electricity from arrays in surrounding areas—including the car owners' homes—while simultaneously reducing their home electricity bills by over ninety percent. The third is formation of economic "unions" of sufficient combined economic size to be major competitors. In this updated edition, feed-in tariffs are identified as the most effective approach for public policy. Reasons are provided to explain why pin solar cells outperform more traditional pn solar cells. Field test data are reported for nineteen percent

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pin solar cells and for ~500X concentrating systems with bare cell efficiencies approaching forty percent. Paths to bare cell efficiencies over fifty percent are described, and key missing program elements are identified. Since government support is needed for new technology prototype integration and qualification testing before manufacturing scale up, the key economic measure is identified in this volume as the electricity cost in cents per kilowatt-hour at the complete installed system level, rather than just the up-front solar cell modules' costs in dollars per watt. This Second Edition will benefit technologists in the fields of solar cells and systems; solar cell researchers; power systems designers; academics studying microelectronics, semiconductors, and solar cells; business students and investors with a technical focus; and government and political officials developing public policy. Look at rainfalls of diamonds on Neptune, dust storms stirred by 6,000-mph winds on Jupiter, or Saturn's 30 moons. View everyday occurrences on Venus that would be life-ending catastrophes on earth, and close-ups of long-ago river systems on Mars. Each planet appears in incredibly realistic paintings, with introductions by leading scientists. "Scores of photos, original illustrations and diagrams."—Crosswinds Weekly.

Electrical and Electronic Engineering provides a foundation for first year undergraduates and HND students in electrical and electronic engineering. It offers exceptional breadth of coverage and detail in a clear and accessible manner. Suitable for specialists and non-specialists, it makes no excessive demands on the reader's mathematical skills. The basics of circuit theory and analysis are covered at the outset, followed by discrete devices and integrated circuits. Electrical machines, power electronics and digital logic circuits are treated thoroughly in a central group of chapters. Coverage of the essentials of computer architecture and networks is

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followed by a detailed chapter on microprocessors and microcontrollers. The importance of modern communications technology is reflected in the comprehensive group of chapters devoted to analogue, digital and optical fibre communications systems and telephony. Two concluding chapters deal with the important topic of electromagnetic compatibility and the basics of instrumentation and measurement that are essential for non-specialists. This fully revised third edition of this popular text uses a wealth of practical exercises and examples making it ideal as a teaching resource or a study tool.

The series of visions that inspired architect Michael Reynolds to develop and build the first Earthship.

A comprehensive and "state-of-the-art" coverage of the design and fabrication of IGBT. All-in-one resource Explains the fundamentals of MOS and bipolar physics. Covers IGBT operation, device and process design, power modules, and new IGBT structures.

The #1 bestselling chapter book series of all time celebrates 25 years with new covers and a new, easy-to-use numbering system! Merlin sends Jack and Annie on a mysterious mission to Paris, France, over a 100 years ago. There they must find four magicians and give them an urgent message from Merlin himself. When Jack and Annie land in Paris, they make their way to the 1889 World's Fair. Below the Eiffel Tower, built especially for the fair, there are thousands of exhibits from all over the world. But how will Jack and Annie find the magicians in the crowds of people? And who are the magicians anyway? Jack and Annie are about to find out in another adventure filled with history, magic, and amazing surprises! Formerly numbered as Magic Tree House #35, the title of this book is now Magic Tree House Merlin Mission #7: Night of the New Magicians. Did you know that there's a Magic Tree House book for every kid? Magic Tree House:

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Adventures with Jack and Annie, perfect for readers who are just beginning chapter books Merlin Missions: More challenging adventures for the experienced reader Super Edition: A longer and more dangerous adventure Fact Trackers: Nonfiction companions to your favorite Magic Tree House adventures Have more fun with Jack and Annie at MagicTreeHouse.com!

As demonstrated by recent major blackouts, power grids and their associated markets play a vital role in the operation of our society. Understanding how electric generation, transmission, and delivery systems interact and operate is paramount to guaranteeing reliable sources of electricity. Electric Energy Systems offers highly comprehensive and detailed coverage of power systems operations, uniquely integrating technical and economic analyses. The book fully develops classical subjects such as load flow, short-circuit analysis, and economic dispatch within the context of the new deregulated, competitive electricity markets. With contributions from 24 internationally recognized specialists in power engineering, the text also presents a wide range of advanced topics including harmonic load flow, state estimation, and voltage and frequency control as well as electromagnetic transients, fault analysis, and angle stability. A well-needed and updated extension on classical power systems analysis books, Electric Energy Systems provides an in-depth analysis of the most relevant issues affecting the blood-line of our society, the generation and transmission systems for electric energy.

The application of metal-oxide surge arresters to safeguard electric power equipment against the hazards of abnormally high voltage surges of various origins is covered. Step-by-step directions toward proper solutions of various applications are provided. In many cases, the prescribed steps are adequate. More complex and special solutions requiring study

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by experienced engineers are described, but specific solutions are not always given. The procedures are based on theoretical studies, test results, and experience.

What does it mean to be a Christian man? Is his identity rooted in his service, career, or family? In this book, we will explore what defines the Christian male. It is time for Christian men to rise to the challenge of following Christ as true disciples and demonstrators of His grace, peace, and power.

In many university curricula, the power electronics field has evolved beyond the status of comprising one or two special-topics courses. Often there are several courses dealing with the power electronics field, covering the topics of converters, motor drives, and power devices, with possibly additional advanced courses in these areas as well. There may also be more traditional power-area courses in energy conversion, machines, and power systems. In the breadth vs. depth tradeoff, it no longer makes sense for one textbook to attempt to cover all of these courses; indeed, each course should ideally employ a dedicated textbook. This text is intended for use in introductory power electronics courses on converters, taught at the senior or first-year graduate level. There is sufficient material for a one year course or, at a faster pace with some material omitted, for two quarters or one semester. The first class on converters has been called a way of enticing control and electronics students into the power area via the "back door". The power electronics field is quite broad, and includes fundamentals in the areas of • Converter circuits and electronics • Control systems • Magnetics • Power applications • Design-oriented analysis This wide variety of areas is one of the things which makes the field so interesting and appealing to newcomers. This breadth also makes teaching the field a challenging undertaking, because one cannot assume that all students enrolled in the class have

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solid prerequisite knowledge in so many areas.

The revision of this extremely popular text, Circuits and Networks: Analysis and Synthesis, comes at a time when the industry is increasingly looking to hire engineers who are able to display learning outcomes. The book has been revised based on internationally accepted Learning Outcomes required from a course. Additionally, key pedagogical aids, such as questions from previous year question papers are added afresh to further help students in preparing for this course and its examinations. For the tech savvy, the practice of MCQs in a digital and randomized environment will provide thrill. Salient Features: - Content revised as per internationally accepted learning outcomes - 461 Frequently asked questions derived from important previous year question papers - Features like Definition and Important Formulas are highlighted within the text

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